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TITLE: ***Surface*** - ***active*** fluorinated alkyl sulfides

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PATENT ASSIGNEE(S): Pennwalt Corp.

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PATENT INFORMATION:

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DE 2239709	A1	19730222	DE 1972-2239709	19720811
CA 962281	A1	19750204	CA 1972-145564	19720623
GB 1395955	A	19750529	GB 1972-35227	19720727
NL 7210982	A	19730214	NL 1972-10982	19720811
FR 2150116	A5	19730330	FR 1972-29239	19720811
JP 48026714	A2	19730409	JP 1972-80040	19720811
JP 57047187	B4	19821007		

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AB Eleven title compds., i.e. bis[2-[7-(trifluoromethyl)perfluoroctyl]ethyl]trimethylmethanol (I) [***40099-98-7***] and (F₃C)2CF(CF₂)_nCH₂CH₂SX [II; n = 4 or 6; X = CH₂CH(OH)CH₂OH, CH₂CH₂CO₂H, CH₂CH₂NMe₂, CH₂CH₂NH₂,

4-pyridyl, 2-benzimidazolyl, 2-pyridimyl, o-carboxyphenyl, or 3,5-dichloro-2-pyridyl] and their derivs., e.g. carbamates or chloroacetates, were prep'd. without olefin formation in 33-100% yield by reaction of (F₃C)2CF(CF₂)_nCH₂CH₂I (III) with (HSCH₂)₂CHOH (IV) and HSR, resp., in the presence of NaOH in a polar solvent, e.g. EtOH. I and II were partly used as ***surface*** - ***active*** agents and useful as insecticides. Thus, IV was added to NaOH-EtOH, the mixt. heated 5-10 min at ~50.deg., added to III (n = 6) in EtOH, and the mixt. refluxed 1 hr to give 81% I.

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